

5 DYNAMIC SOFTWARE CODE INSTRUMENTATION METHOD AND SYSTEM

ABSTRACT OF THE DISCLOSURE

 A method and system of monitoring code after being
10 compiled or assembled is provided. Software code
 instructions, such as a function preamble and/or a data
 manipulation instruction, are identified using debug
 information and then dynamically replaced with an
 instruction that will branch execution to a scratchpad
15 buffer. A routine is inserted into the scratchpad buffer,
 and includes instruction(s) to generate output to a trace
 buffer. Subsequent instructions in the scratchpad may
 execute the replaced instruction(s) and branch back to the
 address of the program code immediately following the
20 original address of the replaced instruction.